

CLAIM SET AS AMENDED

1. (Currently Amended) A water spray head for spraying water spray mist in a fire prevention system, comprising:

a water supply duct;

a spray head upper body;

a fluid chamber; ~~and~~

a ~~“w” shaped~~ spray head bottom extending beneath a lower portion of the spray head upper body; ~~and~~

~~on which~~ at least two rings of nozzles are installed on the spray head bottom,

wherein the spray head bottom has a “w” shape when viewed from a side sectional view.

2. (Currently Amended) The water spray head as in claim 1, wherein the at least two rings of nozzles include an outer ring and an inner ring, the nozzles ~~installed on~~ included in the outer ring are pointed ~~outward~~ outwardly and ~~downward~~ downwardly, and the nozzles installed on the inner ring are pointed ~~inward~~ inwardly and ~~downward~~ downwardly.

3. (Original) The water spray head as in claim 1, wherein the spray head produces finer water mist spray than each individual nozzle.

4. (Previously Presented) The water spray head as in claim 2, wherein water mist sprays from the inner ring of nozzles collide with each other to produce finer water droplets, thereby improving fire suppression efficiency.

5. (Currently Amended) The water spray head as in claim 4, wherein the nozzles on the inner ring are installed with a tilt angle (γ) (β) so that the spray mist from the inner nozzle collides tangentially.

6. (Previously Presented) The water spray head as in claim 5, wherein a downward water mist nozzle is installed on a face of the spray head bottom.

7. (Previously Presented) The water spray head as in claim 1, wherein the water spray head has a solid cone spray pattern regardless of the spray pattern of each individual nozzle.

8. (Previously Presented) The water spray head as in claim 1, wherein the nozzles are assembled with the spray head by a thread screw connection.

9. (Currently Amended) The water spray head as in claim 8, wherein the nozzles ~~can be easily~~ are replaced using new nozzles instead of a whole spray head when a potential fire scenario changes.

10. (Currently Amended) The water spray head as in claim 1, wherein ~~some of the nozzles are installed~~ the water spray head is provided with a stop valve for individually activating the water spray head, depending on ~~the~~ a potential fire scenario.

11-18. (Canceled)

19. (New) The water spray head as in claim 1, wherein the spray head bottom is provided with a downwardly facing circular face surrounded by the first and the second slant faces of the spray head bottom.

20. (New) The water spray head as in claim 4, wherein a downward water mist nozzle is installed on a face of the spray head bottom, and the water from the water mist nozzle collides with the water mist sprays from the inner ring of nozzles.

21. (New) A water spray head for spraying water spray mist in a fire prevention system, comprising:

- a water supply duct;
- a spray head upper body;
- a fluid chamber;

a spray head bottom extending beneath a lower portion of the spray head upper body;

and

at least two rings of nozzles are installed on the spray head bottom,

wherein the spray head bottom has a “w” shape when viewed from a side sectional view, so that a first slant face of the spray head bottom faces outwardly and downwardly, and a second slant surface of the spray head faces inwardly and downwardly.